



5-8-12  
ATT: Brooke Gale

Brooke,

I hope this is what  
you're looking for

Thank you  
Lisa Hoffman



# MATERIAL SAFETY DATA SHEET

Date Issued: 12/06/2007  
MSDS No: 1915-16SQ  
Date Revised: 05/04/2011  
Revision No: 1

## TV Coolant

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TV Coolant  
**PRODUCT DESCRIPTION:** TV Coolant  
**PRODUCT CODE:** 1915-16SQ

#### MANUFACTURER

Techspray, L.P.  
1001 N.W. 1st Street  
P.O. Box 949  
Amarillo TX 79107  
**Emergency Contact:** Chemtrec  
**Product Stewardship:** 1-800-858-4043  
**Service Number:** 1-800-858-4043

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear, colorless, mobile liquid

**IMMEDIATE CONCERNS:** Harmful if swallowed or inhaled.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

**SKIN:** May cause skin irritation.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Headache, nausea, and possible coordination problems.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**CARCINOGENICITY:** Ethylene glycol (CAS# 107-21-1) is ACGIH listed as category A4 carcinogen.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name       | Wt. %   | CAS      | EINECS    |
|---------------------|---------|----------|-----------|
| 1,2-Ethandiol       | 60 - 80 | 107-21-1 | 203-473-3 |
| 1,2,3- Propanetriol | 20 - 40 | 56-81-5  | 200-289-5 |

### 4. FIRST AID MEASURES

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.



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**INGESTION:** If swallowed, gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Immediately contact a poison control center, emergency room or physician as further treatment may be necessary.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** None : . . . . ASTM D-56 (Tag C.C.)

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, fumes and oxides of carbon.

### 6. ACCIDENTAL RELEASE MEASURES

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**GENERAL PROCEDURES:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

### 7. HANDLING AND STORAGE

**HANDLING:** Empty containers will retain product residue and vapor and should be handled as if they were full.

**STORAGE:** Store in closed, properly labeled containers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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### EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) |      |                          |                                  |               |                   |              |                   |
|--|------|--------------------------|----------------------------------|---------------|-------------------|--------------|-------------------|
| Chemical Name                                |      | EXPOSURE LIMITS          |                                  |               |                   |              |                   |
|  |      | OSHA PEL                 |                                  | ACGIH TLV     |                   | Supplier OEL |                   |
|  |      | ppm                      | mg/m <sup>3</sup>                | ppm           | mg/m <sup>3</sup> | ppm          | mg/m <sup>3</sup> |
| 1,2-Ethanediol                               | TWA  | 125<br>mg/m <sup>3</sup> |                                  | 127<br>ppm    |                   |              |                   |
| 1,2,3- Propanetriol                          | TWA  | NL [1]                   | 10*, 5^<br>mg/m <sup>3</sup> [1] | 10<br>ppm [2] | NL [2]            | NL           | NL                |
|  | STEL | NL                       | NL                               | NL            | NL                | NL           | NL                |

**OSHA TABLE COMMENTS:**  
 1. \* = Total dust, ^ = Respirable fraction  
 2. NL = Not Listed

**ENGINEERING CONTROLS:** Mechanical ventilation recommended.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Gloves of the following materials may provide protection against permeation:  
 Viton, solvex, Buna, Butyl, and Neoprene.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Faint ethereal odor

**APPEARANCE:** Clear, Colorless liquid

**pH:** 7

**PERCENT VOLATILE:** 65 at 25°C

**VAPOR DENSITY:** 2.1 (Air=1)

**BOILING POINT:** 197°C (386°F)

**FLASHPOINT AND METHOD:** None : . . . . ASTM D-56 (Tag C.C.)

**SOLUBILITY IN WATER:** Miscible



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**DENSITY:** 1.15 at 25°C**(VOC):** 748.000 g/L (non-exempt VOC)

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.**INCOMPATIBLE MATERIALS:** Metals. Acidic conditions. Oxidizing materials.

### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Mixture is a moderate eye irritant.**SKIN EFFECTS:** The mixture is a mild to severe skin irritant but is not a skin sensitizer in animals.

#### CARCINOGENICITY

| Chemical Name  | NTP Status | IARC Status | OSHA Status |
|----------------|------------|-------------|-------------|
| 1,2-Ethanediol | NOT LISTED | NOT LISTED  | NOT LISTED  |

**Notes:** Ethylene glycol (CAS# 107-21-1) is listed by ACGIH as Group A4.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal. Substrate residues, ie lead components, remaining on the swabs may determine proper disposal methods.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Nonhazardous

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Nonhazardous

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**TV Coolant****VESSEL (IMO/IMDG)****SHIPPING NAME:** Nonhazardous**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** ACUTE**ACUTE:** Yes**313 REPORTABLE INGREDIENTS:** Ethylene glycol CAS# 107-21-1.**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

| Chemical Name  | Wt. %   | CAS      |
|----------------|---------|----------|
| 1,2-Ethanediol | 60 - 80 | 107-21-1 |

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Ethylene glycol CAS# 107-21-1.

| Chemical Name  | Wt. %   | CERCLA RQ |
|----------------|---------|-----------|
| 1,2-Ethanediol | 60 - 80 | 5000 lbs. |

**CERCLA RQ:** 5000 lbs**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

| Chemical Name       | CAS      | TSCA SECTION |
|---------------------|----------|--------------|
| 1,2-Ethanediol      | 107-21-1 | 12b,         |
| 1,2,3- Propanetriol | 56-81-5  |              |

**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR1910.119—PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS****CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the State of California to cause cancer.**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.**CANADA****WHMIS CLASS:** Class D2B - Toxic Materials**16. OTHER INFORMATION****APPROVED BY:** Pierce A. Pillon **TITLE:** Chemist



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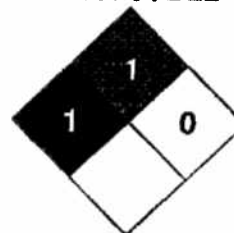
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**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the December 06, 2007 MSDS. Any changes in information are as follows: In Section 15: EEC Symbol Id., EEC Risk Phrase Codes

### NFPA CODES



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